Refine Search

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Terms	Documents
L8 and ((first or second) near aggregat$)	0

Database:
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Search: L9

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Search History

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DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L9	L8 and ((first or second) near aggregat$)	0	L9
L8	L4 and L6	5	L8
L7	L4 not L5	0	L7
L6	"flow aggregation process"	11	L6
L5	L3 and (transmit$4 or send$3)	13	L5
L4	L3 and (transmit$ or send$)	13	L4
L3	L1 and L2	15	L3
L2	aggregat$ near flow	1602	L2
L1	(data near collect$4) same traffic same flow	437	L1

END OF SEARCH HISTORY

Hit List

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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 6751663 B1

Using default format because multiple data bases are involved.

L13: Entry 1 of 4 File: USPT Jun 15, 2004

US-PAT-NO: 6751663
DOCUMENT-IDENTIFIER: US 6751663 B1

TITLE: System wide flow aggregation process for aggregating network activity records

DATE-ISSUED: June 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Farrell; Kevin	Windham	NH		
Ball; Steven	Sandown	NH		
Mahoney, II; Daniel O.	Rollinsford	NH		

US-CL-CURRENT: 709/224; 709/223

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 6625657 B1

L13: Entry 2 of 4 File: USPT Sep 23, 2003

US-PAT-NO: 6625657
DOCUMENT-IDENTIFIER: US 6625657 B1

TITLE: System for requesting missing network accounting records if there is a break in sequence numbers while the records are transmitting from a source device

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 6446200 B1

L13: Entry 3 of 4 File: USPT Sep 3, 2002

US-PAT-NO: 6446200
DOCUMENT-IDENTIFIER: US 6446200 B1

TITLE: Service management

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 4. Document ID: US 6405251 B1

L13: Entry 4 of 4 File: USPT Jun 11, 2002

US-PAT-NO: 6405251
DOCUMENT-IDENTIFIER: US 6405251 B1

TITLE: Enhancement of network accounting records

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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Terms	Documents
L12 and L6	4

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Search Results -

Terms	Documents
L17 and L2	1

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Search: L18

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L18	L17 and L2	1	L18
L17	(L14 or L15 or L16) and L1	10	L17
L16	709/248.ccls.	658	L16
L15	709/237.ccls.	547	L15
L14	709/216-219.ccls.	8415	L14
L13	L12 and L6	4	L13
L12	(L10 or L11) and L1	85	L12
L11	709/$.ccls.	44823	L11
L10	707/$.ccls.	34801	L10
L9	L8 and ((first or second) near aggregat$)	0	L9
L8	L4 and L6	5	L8
L7	L4 not L5	0	L7
L6	"flow aggregation process"	11	L6
L5	L3 and (transmit$4 or send$3)	13	L5

L4	L3 and (transmit$ or send$)	13	L4
L3	L1 and L2	15	L3
L2	aggregat$ near flow	1602	L2
L1	(data near collect$4) same traffic same flow	437	L1

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☐ 1. Document ID: US 6625657 B1

Using default format because multiple data bases are involved.

L18: Entry 1 of 1 File: USPT Sep 23, 2003

US-PAT-NO: 6625657
DOCUMENT-IDENTIFIER: US 6625657 B1

TITLE: System for requesting missing network accounting records if there is a break in sequence numbers while the records are transmitting from a source device

DATE-ISSUED: September 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bullard; William Carter Carroll	New York	NY		

US-CL-CURRENT: 709/237; 709/224, 709/248

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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Terms	Documents
L17 and L2	1

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IEEE STD	IEEE Standard

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1. **A system for remote meter reading and load management**
Erakovic, I.; Rakic, D.; Lapcevic, V.; Marjanovic, S.; Djonovic, M.;
Metering and Tariffs for Energy Supply, 1999. Ninth International Conference c
No. 462)
25-28 May 1999 Page(s):196 - 199
AbstractPlus | Full Text: PDF(284 KB) **IEE CNF**

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IEEE STD	IEEE Standard

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1. **A particle filter for freeway traffic estimation**
Mihaylova, L.; Boel, R.;
Decision and Control, 2004. CDC. 43rd IEEE Conference on
Volume 2, 14-17 Dec. 2004 Page(s):2106 - 2111 Vol.2
AbstractPlus | Full Text: PDF(1897 KB) IEEE CNF
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2. **Impact of segments aggregation on TCP Reno flows in optical burst swit**
Detti, A.; Listanti, M.;
INFOCOM 2002. Twenty-First Annual Joint Conference of the IEEE Computer Communications Societies. Proceedings. IEEE
Volume 3, 23-27 June 2002 Page(s):1803 - 1812 vol.3
Digital Object Identifier 10.1109/INFCOM.2002.1019434
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3. **Using network flows in hierarchical QoS routing**
Sarangan, V.; Acharya, R.;
Networks, 2001. Proceedings. Ninth IEEE International Conference on
10-12 Oct. 2001 Page(s):422 - 427
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IEE CNF	IEE Conference Proceeding
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IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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Panagiotopoulou, L.;
Vehicular Technology Conference, 2004. VTC 2004-Spring. 2004 IEEE 59th
Volume 5, 17-19 May 2004 Page(s):2926 - 2930 Vol.5
Digital Object Identifier 10.1109/VETECS.2004.1391460
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2. **An information protection system for intranets**
Guoqing Zhang; Jie Wang; Chongying Cao;
Computers and Communications, 2002. Proceedings. ISCC 2002. Seventh Int Symposium on
1-4 July 2002 Page(s):899 - 903
Digital Object Identifier 10.1109/ISCC.2002.1021779
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1 Preserving quality of service guarantees in spite of flow aggregation

Jorge Arturo Cobb
February 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 1
Publisher: IEEE Press
Full text available: pdf(238.44 KB) Additional Information: full citation, abstract, references, citings, index terms

We investigate how quality of service may be guaranteed to a flow of packets in the presence of flow aggregation. For efficiency, multiple flows, known as the constituent flows, are merged together resulting in a single aggregate flow. After the network node where the aggregation occurs, packet schedulers are aware of the aggregate flow, but are unaware of its constituent flows. In spite of this, we show that quality of service may be guaranteed to the constituent flows, provided the aggregation ...

Keywords: Flow aggregation, quality of service, real-time scheduling

2 Searching for mobile mice and elephants in GPRS networks

Roger Kalden, Hannes Ekström
October 2004 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 8 Issue 4
Publisher: ACM Press
Full text available: pdf(359.88 KB) Additional Information: full citation, abstract, references

In this paper, we provide statistics on large-scale traffic measurements that have been made in a live cellular GPRS network. We show that the current GPRS traffic is dominated by HTTP- and WAP-based applications, and further show in what direction (uplink and/or downlink) the ensuing traffic is transmitted as well as statistics on the length of the flows on a per application basis. We find that the results differ compared to those found in similar measurement studies that have been carried out ...

3 Pricing differentiated services in the GPRS environment

Sergios Soursos, Costas Courcoubetis, George C. Polyzos
July 2003 **Wireless Networks**, Volume 9 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: pdf(916.31 KB) Additional Information: full citation, abstract, references, index terms

The General Packet Radio Service extends the existing GSM mobile communications

technology by providing packet switching and higher data rates in order to efficiently access IP-based services in the Internet. We adapt the Differentiated Services Quality-of-Service support framework and apply it over the GPRS air interface in order to provide various levels of service differentiation. We also focus on applying a charging technique so as to publish a unit price for each service class. These prices ...

Keywords: GPRS, QoS, congestion pricing, differentiated services, two-bit differentiation

4 Papers: Operational and performance issues of a CBQ router

Fulvio Risso, Panos Gevros
October 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 5
Publisher: ACM Press
Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, citings

The use of scheduling mechanisms like Class Based Queueing (CBQ) is expected to play a key role in next generation multiservice IP networks. In this paper we attempt an experimental evaluation of ALTQ/CBQ demonstrating its sensitivity to a wide range of parameters and link layer driver design issues. We pay attention to several CBQ internal parameters that affect performance drastically and particularly to "borrowing", a key feature for flexible and efficient link sharing. We are also investigat ...

5 Pricing differentiated services in the GPRS environment

Sergios Soursos, Costas Courcoubetis, George Polyzos
July 2001 **Proceedings of the first workshop on Wireless mobile internet**
Publisher: ACM Press
Full text available: pdf(645.04 KB) Additional Information: full citation, abstract, references, index terms

The General Packet Radio Service extends the existing GSM mobile communications technology by providing packet switching and higher data rates in order to efficiently access IP-based services in the Internet. Since no realization path for Quality-of-Service support has been proposed yet, we adapt the Differentiated Services framework and apply it over the GPRS air interface in order to provide various levels of service differentiation. We also focus on applying a charging technique so as ...

Keywords: GPRS, congestion pricing, differentiated services, tatonnement, two-bit differentiation

6 Trajectory sampling for direct traffic observation

N. G. Duffield, Matthias Grossglauser
June 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 3
Publisher: IEEE Press
Full text available: pdf(251.55 KB) Additional Information: full citation, abstract, references, citings, index terms

Traffic measurement is a critical component for the control and engine ering of communication networks. We argue that traffic measurement should make it possible to obtain the spatial flow of traffic through the domain, i.e., the paths followed by packets between any ingress and egress point of the domain. Most resource allocation and capacity planning tasks can benefit from such information. Also, traffic measurements should be obtained without a routing model and without knowledge of netw ...

Keywords: Hash functions, Internet traffic measurement, packet sampling, traffic engineering

7 High performance TCP in ANSNET

Curtis Villamizar, Cheng Song
October 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 5
Publisher: ACM Press
Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, citings, index terms

This report concentrates on specific requirements and goals of the research networks supported by ANSNET, but applies to any TCP dominated high speed WAN and in particular those striving to support high speed end-to-end flows. Measurements have been made under conditions intended to better understand performance barriers imposed by network equipment queueing capacities and queue drop strategies.The IBM RS/6000 based routers currently supporting ANSNET performed very well in these tests. Measurem ...

8 Ad hoc and sensor networks: Topology control for wireless sensor networks

Jianping Pan, Y. Thomas Hou, Lin Cai, Yi Shi, Sherman X. Shen
September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(297.02 KB) Additional Information: full citation, abstract, references, citings, index terms

We consider a two-tiered Wireless Sensor Network (WSN) consisting of sensor clusters deployed around strategic locations and base-stations (BSs) whose locations are relatively flexible. Within a sensor cluster, there are many small sensor nodes (SNs) that capture, encode and transmit relevant information from the designated area, and there is at least one application node (AN) that receives raw data from these SNs, creates a comprehensive local-view, and forwards the composite bit-stream toward ...

Keywords: network lifetime, topology control, wireless sensor networks

9 GPRSWeb: optimizing the web for GPRS links

Rajiv Chakravorty, Andrew Clark, Ian Pratt
May 2003 **Proceedings of the 1st international conference on Mobile systems, applications and services MobiSys '03**
Publisher: ACM Press
Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references

The General Packet Radio Service (GPRS) is being deployed by GSM network operators world-wide, and promises to offer users "always-on" data access at bandwidths comparable to that of conventional fixed-line telephone modems. Unfortunately, many users have found the reality to be rather different, experiencing very disappointing performance when, for example, browsing the web over GPRS.In this paper we investigate what causes the HTTP protocol and its underlying transport TCP to underperform in a ...

10 Trajectory sampling for direct traffic observation

N. G. Duffield, M. Grossglauser
August 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication SIGCOMM '00**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: pdf(421.07 KB) Additional Information: full citation, abstract, references, citings, index terms

Traffic measurement is a critical component for the control and engineering of

communication networks. We argue that traffic measurement should make it possible to obtain the spatial flow of traffic through the domain, i.e., the paths followed by packets between any ingress and egress point of the domain. Most resource allocation and capacity planning tasks can benefit from such information. Also, traffic measurements should be obtained without a routing model and without knowledge of netwo ...

11 Identification and classification: Class-of-service mapping for QoS: a statistical signature-based approach to IP traffic classification

Matthew Roughan, Subhabrata Sen, Oliver Spatscheck, Nick Duffield

October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement**

Publisher: ACM Press

Full text available: pdf(707.69 KB) Additional Information: full citation, abstract, references, index terms

The ability to provide different Quality of Service (QoS) guarantees to traffic from different applications is a highly desired feature for many IP network operators, particularly for enterprise networks. Although various mechanisms exist for providing QoS in the network, QoS is yet to be widely deployed. We believe that a key factor holding back widespread QoS adoption is the absence of suitable methodologies/processes for appropriately mapping the traffic from different applications to diff ...

Keywords: class of service (CoS), quality of service (QoS), statistical signature, traffic classification

12 Enhancing Speedup in Network Processing Applications by Exploiting Instruction Reuse with Flow Aggregation

G. Surendra, Subhasis Banerjee, S. K. Nandy

March 2003 **Proceedings of the conference on Design, Automation and Test in Europe - Volume 1 DATE '03**

Publisher: IEEE Computer Society

Full text available: pdf(225.62 KB) Publisher Site Additional Information: full citation, abstract, index terms

Instruction reuse is a microarchitectural technique that improves the execution time of a program by removing redundant computations at run-time. Although this is the job of an optimizing compiler, they do not succeed many a time due to limited knowledge of run-time data. In this paper we examine instruction reuse of integer ALU and load instructions in network processing applications. Specifically, this paper attempts to answer the following questions: (1) How much of instruction reuse is inher ...

13 Transferring color to greyscale images

Tomihisa Welsh, Michael Ashikhmin, Klaus Mueller

July 2002 **ACM Transactions on Graphics (TOG) , Proceedings of the 29th annual conference on Computer graphics and interactive techniques SIGGRAPH '02**, Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(4.03 MB) Additional Information: full citation, abstract, references, citings, index terms

We introduce a general technique for "colorizing" greyscale images by transferring color between a source, color image and a destination, greyscale image. Although the general problem of adding chromatic values to a greyscale image has no exact, objective solution, the current approach attempts to provide a method to help minimize the amount of human labor required for this task. Rather than choosing RGB colors from a palette to color individual components, we transfer the entire color "mood" of ...

Keywords: color, image processing, texture synthesis, video

14 Bridging the gap: transferring logic from a simulation into an actual system controller

Roger McHaney
December 1988 **Proceedings of the 20th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(649.42 KB) Additional Information: full citation, abstract, references, index terms

The use of simulation in the design stages of complex control systems has warranted the development of new methodology for transferring logic from model to actual system. This paper emphasizes the importance of maintaining simulation integrity during actual system implementation and presents four methods to aid in accomplishing this. These four methods of logic transfer are discussed and compared using the example of an AGV system simulation.

15 A simple model of real-time flow aggregation

Huirong Fu, Edward W. Knightly
June 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 3
Publisher: IEEE Press
Full text available: pdf(756.48 KB) Additional Information: full citation, abstract, references, index terms

The IETF's Integrated Services (IntServ) architecture together with reservation *aggregation* provide a mechanism to support the quality-of-service demands of real-time flows in a scalable way, i.e., without requiring that each router be signaled with the arrival or departure of each new flow for which it will forward data. However, reserving resources in "bulk" implies that the reservation will not precisely match the true demand. Consequently, if the flows' demanded bandwidth varies rapid ...

Keywords: QoS, admission control, aggregation, diffServ, intServ, model, performance, scalability, simulation

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